Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (currently amended) A polymeric composition having improved capability to solubilize a drug in a hydrophilic environment, comprising: a biodegradable ABA-type, or BAB-type block copolymer, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight averaged molecular weight of between 1500 to 3099 Daltons,

wherein the polymeric composition has a block copolymer concentration in the range of about 5 to 40%, and said polymeric composition when formed as an aqueous polymer solution, remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.

- 2. (previously presented) The polymeric composition according to claim 1 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 3. (original) The polymeric composition according to claim 1 wherein the A polymer block comprises between about 20 to 100 mole percent lactide or lactic acid, and between about 0 to 80 mole percent glycolide or glycolic acid.
- 4. (currently amended) A biodegradable polymeric drug delivery composition capable of solubilizing a drug in a hydrophilic environment to form a solution, comprising:
 - (a) an effective amount of a drug; and
 - (b) a biodegradable ABA-type, or BAB-type block copolymer comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight-averaged molecular weight of between 1500 to 3099 Daltons,

wherein the polymeric composition has a block copolymer concentration in the range of about 5 to 40%, and said composition remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.

- 5. (previously presented) The polymeric drug delivery composition according to claim 4 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 6. (original) The polymeric drug delivery composition according to claim 4 wherein the A polymer block comprises between about 20 to 100 mole percent lactide or lactic acid, and between about 0 to 80 mole percent glycolide or glycolic acid.
- 7. (original) The polymeric drug delivery composition according to claim 4 wherein the drug content is 10⁻⁶ to 100% of the total triblock copolymer weight.
- 8. (currently amended) A biodegradable polymer solution as a drug delivery vehicle capable of solubilizing a drug in a hydrophilic environment, comprising: a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer and an aqueous solution, said block copolymer comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight-averaged molecular weight of between 1500 to 3099 Daltons;

and wherein the polymeric composition has a block copolymer concentration in the range of about 5 to 40%, and said polymer solution remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.

- (previously amended) The polymeric solution according to claim 8, wherein said block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 10. (previously presented) The polymeric composition according to claim 8 wherein the

biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.

- 11. (original) The polymeric composition according to claim 8 wherein the A polymer block comprises between about 20 to 100 mole percent lactide or lactic acid, and between about 0 to 80 mole percent glycolide or glycolic acid.
- 12. (currently amended) A biodegradable drug solution comprising:
 - (a) an effective amount of a drug solubilized in a polymer solution comprising;
- (1) a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer capable of solubilizing said drug in a hydrophilic environment, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the tri-block copolymer has a weight-averaged molecular weight of between 1500 to 3099 Daltons; and
- (2) an aqueous solution, wherein the polymeric composition has a block copolymer concentration in the range of about 5 to 40%, and said polymer solution remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.
- 13. (original) The biodegradable aqueous polymeric drug solution according to claim 12 further comprising excipients, additives, buffers, osmotic pressure adjusting agents, antioxidants, preservatives, drug stabilizing agents or equivalents thereof.
- 14. (previously amended) The biodegradable aqueous polymeric drug solution according to claim 12, wherein said block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 15. (original) The biodegradable aqueous polymeric drug solution according to claim 12 wherein the drug content is 10⁻⁶ to 100% of the total triblock copolymer weight.
- 16. (previously presented) The biodegradable aqueous polymeric drug solution according to claim 12 wherein the biodegradable polyester of the hydrophobic A polymer block is

synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.

- 17. (original) The biodegradable aqueous polymeric drug solution according to claim 12 wherein the A-block comprises between about 20 to 100 mole percent lactide or lactic acid and between about 0 to 80 mole percent glycolide or glycolic acid.
- 18. (currently amended) A method for administering a drug to a warm blooded animal, comprising
- (1) providing a biodegradable polymeric drug delivery composition comprising:
- (a) an effective amount of a drug; and
- (b) a biodegradable ABA-type, or BAB-type block copolymer comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight-averaged molecular weight of between 1500 to 3099 Daltons,

wherein the polymeric composition has a block copolymer concentration in the range of about 5 to 40%, and said polymeric composition remains a free flowing liquid upon parenteral administration to said warm blooded animal and at temperatures between 35 and 42°C, and

- (2) administering said composition to said warm blooded animal.
- 19. (previously presented) The method according to claim 18 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 20. (original) The method according to claim 18 wherein the A polymer block comprises between about 20 to 100 mole percent lactide or lactic acid, and between about 0 to 80 mole percent glycolide or glycolic acid.
- 21. (original) The method according to claim 18 wherein the drug content is 10⁻⁸ to 100% of the total triblock copolymer weight.

- 22. (original) The method according to claim 18 wherein said administration is by parenteral, ocular, topical, inhalation, transdermal, vaginal, buccal, transmucosal, transurethral, rectal, nasal, oral, peroral, pulmonary or aural means.
- 23. (currently amended) A method for administering a drug to a warm blooded animal, comprising
- (1) providing a biodegradable polymeric drug solution comprising an effective amount of a drug solubilized in a polymer solution comprising;
- (a) a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer capable of solubilizing said drug in a hydrophilic environment, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol(PEG), and wherein the tri-block copolymer has a weight-averaged molecular weight of between 1500 to 3099 Daltons; and
- (b) an aqueous solution, wherein the polymeric solution has a block copolymer concentration in the range of about 5 to 40%, and said polymer solution remains a free flowing liquid upon parenteral administration to said warm blooded animal and at temperatures between 35 and 42°C, and;
- (2) administering said drug solution to said warm blooded animal.
- 24. (previously amended) The method according to claim 23, wherein the block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 25. (previously presented) The method according to claim 23 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 26. (original) The method according to claim 23 wherein the A-block comprises between about 20 to 100 mole percent lactide or lactic acid and between about 0 to 80 mole percent glycolide or glycolic acid.
- 27. (original) The method according to claim 23 wherein the drug content is 10-8 to 100% of

the total triblock copolymer weight.

- 28. (original) The method according to claim 23 wherein said administration is by intramuscular, intraperitoneal, intra-abdominal, subcutaneous, intrathecal, intrapleural, intravenous or intraarterial means.
- 29. (currently amended) A method for enhancing the solubility of a drug, comprising 1) preparing a polymeric composition comprising a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block-comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight averaged molecular weight of between 1500 to 3099 Daltons,
- 2) admixing the polymeric composition with a drug; and
- 3) admixing the drug containing polymeric composition with an aqueous solution to obtain a drug solution that has a block copolymer concentration in the range of about 5 to 40%, and that-remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.
- 30. (previously amended) The method according to claim 23, wherein the block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 31. (previously presented) The method according to claim 29 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 32. (original) The method according to claim 31 wherein the A-block comprises between about 20 to 100 mole percent lactide or lactic acid and between about 0 to 80 mole percent glycolide or glycolic acid.
- 33. (original) The method according to claim 29 wherein the drug content is 10⁻⁶ to 100% of the total triblock copolymer weight.

- 34. (currently amended) A method for enhancing the solubility of a drug, comprising 1) preparing a polymeric composition comprising a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
- ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene glycol (PEG), and wherein the block copolymer has a weight averaged molecular weight of between 1500 to 3099 Daltons.
- 2) admixing said composition with an aqueous solution to form a polymeric solution that has a block copolymer concentration in the range of about 5 to 40%, and that remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C, and
- 3) admixing said polymer solution with a drug to form a drug solution.
- 35. (previously amended) The method according to claim 34, wherein the block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 36. (previously presented) The method according to claim 34 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolide, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 37. (original) The method according to claim 34 wherein the A-block comprises between about 20 to 100 mole percent lactide or lactic acid and between about 0 to 80 mole percent glycolide or glycolic acid.
- 38. (original) The method according to claim 34 wherein the drug content is 10⁻⁶ to 100% of the total triblock copolymer weight.
- 39. (currently amended) A method for enhancing the solubility of a drug, comprising 1) preparing a polymeric composition comprising a functional concentration of a biodegradable ABA-type, or BAB-type block copolymer, comprising:
- i) 50.1 to 65% by weight of a biodegradable, hydrophobic A polymer block comprising a biodegradable polyester, and
 - ii) 35 to 49.9% by weight of a hydrophilic B polymer block comprising a polyethylene

glycol (PEG), and wherein the block copolymer has a weight averaged molecular weight of between 1500 to 3099 Daltons,

- 2) admixing a drug with an aqueous solution to form a drug-aqueous solution mixture, and 3) admixing said polymer composition with said drug-aqueous solution mixture to form a drug polymeric solution that has a block copolymer concentration in the range of about 5 to 40%, and that remains a free flowing liquid upon parenteral administration to a warm blooded animal and at temperatures between 35 and 42°C.
- 40. (previously amended) The method according to claim 39, wherein the block copolymer concentration is between about 10 to 30% by weight of said polymer solution.
- 41. (previously presented) The method according to claim 39 wherein the biodegradable polyester of the hydrophobic A polymer block is synthesized from monomers including D, L-lactide, D-lactide, L-lactide, D, L-lactic acid, D-lactic acid, L-lactic acid, glycolic acid, ε-caprolactone, ε-hydroxy hexanoic acid, or copolymers thereof.
- 42. (previously presented) The method according to claim 39 wherein the A-block comprises of between about 20 to 100 mole percent lactide or lactic acid and between about 0 to 80 mole percent glycolide or glycolic acid.
- 43. (previously presented) The method according to claim 39 wherein the drug content is 10-6 to 100% of the total tri block copolymer weight.
- 44. (cancelled)
- 45. (cancelled)
- 46. (cancelled)
- 47. (cancelled)